

CLAIMS

1. (Deleted)

2. (Deleted)

3. (Amended) A torque meter comprising:

an elastic member arranged in a power transmission channel and deforming in response to a torque to be measured; and

torque detection means for detecting the torque based on deformation of said elastic member, characterized in that it comprises:

a torque member for receiving the torque applied to said elastic member; and

a load member arranged separate from said torque member, for supporting a load of said elastic member, and

wherein said elastic member is a flange-type member,

wherein said torque member and said load member are thin parts formed of said elastic member,

wherein said torque member has a direction of a surface of the thin part positioned parallel to a direction of torque, and

wherein said load member has a direction of a thickness of the thin part positioned parallel to the direction of torque.

4. (Amended) A torque meter comprising:

an elastic member arranged in a power transmission channel and deforming in response to a torque to be measured; and

torque detection means for detecting the torque based on deformation of said elastic member, characterized in that it comprises:

a torque member for receiving the torque applied to said elastic member; and

a load member arranged separate from said torque member, for supporting a load of said elastic member; and

wherein said elastic member is a torsion-bar-type member,
wherein said torque member is a small-diameter shaft part,
and

wherein said load member is a thin part formed in a radial direction of said small-diameter shaft part and having a direction of a surface positioned in a direction of a torsional moment.

5. (Amended) A torque meter comprising:

an elastic member arranged in a power transmission channel and deforming in response to a torque to be measured; and

torque detection means for detecting the torque based on deformation of said elastic member; characterized in that it comprises:

a torque member for receiving the torque applied to said elastic member; and

a load member arranged separate from said torque member and for supporting a load of said elastic member; and

wherein said elastic member is a cylindrical member,

wherein said torque member is a thin part arranged in a circular-arc direction,

wherein said load member is a thin part arranged in a radial direction.

6. (Amended) The torque meter according to any one of claims 3 to 5, characterized in that said torque detection means are mounted to at least one of said torque member and said load member.

7. (Amended) The torque meter according to any one of claims 3 to 6, characterized in that said torque detection means use two or more types of means.